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INDEX TO AMERICAN BOTANICAL LITERATURE

1913-1918

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Allen, C. E. The spermatogenesis of *Polytrichum juniperinum*.
Ann. Bot. **31**: 269-291. *pl.* 15, 16. Ap 1917.

Allen, C. E., & Gilbert, E. M. Textbook of Botany. i-x + 1-459.
f. 1-223. Chicago. 1917. [Illust.]

Andrews, E. F. Agency of fire in propagation of longleaf pines. Bot.
Gaz. **64**: 497-508. *f.* 1-5. 18 D 1917.

Arthur, J. C. Relationship of the genus *Kuehneola*. Bull. Torrey
Club **44**: 501-511. 20 N 1917.

Includes *Frommea* gen. nov. and *F. Polylepidis* sp. nov.

Babcock, D. C. Diseases of ornamental plants. Ohio Agr. Exp. Sta.
Month. Bull. **2**: 323-328. O 1917. [Illust.]

Barnhart, J. H. John Eatton Le Conte. Am. Mid. Nat. **5**: 135-138.
5 O 1917.

Beadle, C. *Hedychium coronarium* in Brazil. Kew Bull. Misc. Inf.
1917: 104, 105. Au 1917.

Blake, S. F. Descriptions of new spermatophytes, chiefly from the
collections of Prof. M. E. Peck in British Honduras. Contr. Gray
Herb. Harvard Univ. **52**: 59-106. S 1917.

Includes one new genus and 50 new species.

Blake, S. F. New and noteworthy Compositae, chiefly Mexican.
Contr. Gray Herb. Harvard Univ. **52**: 16-59. S 1917.

One new genus and nineteen new species are described.

- Blake, S. F.** Notes on the systematic position of *Clibadium* with descriptions of some new species. Contr. Gray Herb. Harvard Univ. **52**: 1-8. S 1917.
Includes *Clibadium heterotrichum*, *C. strigillosum*, *C. Sprucei*, *C. polygynum* and *C. divaricatum*, spp. nov.
- Blake, S. F.** A revision of the genus *Dimerostemma* Cass. Contr. Gray Herb. Harvard Univ. **52**: 8-16. S 1917.
Dimerostemma asperatum sp. nov. is described.
- Blake, S. F.** Two new polygonums from New England. Rhodora **19**: 232-235. 21 N 1917.
Polygonum achoreum and *P. allocarpum*, spp. nov.
- Blake, S. F.** The varieties of *Chimaphila umbellata*. Rhodora **19**: 237-244. 5 D 1917.
- Bourquin, H.** Starch formation in *Zygnema*. Bot. Gaz. **64**: 426-434. pl. 27. 16 N 1917.
- Brooks, C., & Cooley, J. S.** Effect of temperature aëration and humidity of Jonathan-spot and scald of apples in storage. Jour. Agr. Research **11**: 287-318. pl. 32, 33 + f. 1-23. 12 N 1917.
- Brooks, S. C.** Permeability of the cell walls of *Allium*. Bot. Gaz. **64**: 509-512. 18 D 1917.
- Brown, M. M.** The development of the embryo-sac and of the embryo in *Phaseolus vulgaris*. Bull. Torrey Club **44**: 535-544. pl. 25, 26. 27 D 1917.
- Brown, P. E.** The importance of mold action in soils. Science II. **46**: 171-175. 24 Au 1917.
- Brown, W. H., & Heise, G. W.** The application of photochemical temperature coefficients to the velocity of carbon dioxide assimilation. Philip. Jour. Sci. **12**: (Bot.) 1-25. f. 1-3. Ja 1917.
- Brush, W. D.** Distinguishing characters of North American sycamore woods. Bot. Gaz. **64**: 480-496. pl. 32-38 + f. 1-3. 18 D 1917.
- Buchanan, R. E.** Studies on the nomenclature and classification of the bacteria. Jour. Bact. **2**: 603-617. N 1917.
- Burt, E. A.** *Merulius* in North America. Ann. Missouri Bot. Gard. **4**: 305-362. pl. 20-22 + f. 1-39. N 1917.
Includes descriptions of sixteen new species.
- Choate, H. A.** The earliest glossary of botanical terms. Torreya **17**: 186-201. 30 N 1917.
- Clute, W. N.** Botany and common names of plants. Science II. **46**: 483, 484. 16 N 1917.
- Colley, R. H.** Diagnosing white-pine blister-rust from its mycelium. Jour. Agr. Research **11**: 281-286. pl. 31 + f. 1. 5 N 1917.

- Copeland, E. B.** New species and a new genus of Borneo ferns, chiefly from the Kinabalu collections of Mrs. Clemens and Mr. Topping, Philip. Jour. Sci. **12**: (Bot.) 45-65. Ja 1917.
Forty-four new species are described.
- C[oulter], J. M.** Ellsworth Jerome Hill. Bot. Gaz. **64**: 165, 166. 15 Au 1917. [Portrait.]
- Curjar, A. M.** The adaptation of Truog's method for the determination of carbon dioxide to plant respiration studies. Plant World **20**: 288-293. f. 1. S 1917.
- Davis, W. E.** Resistance of seed coats of *Abutilon Theophrasti* to intake of water. Bot. Gaz. **64**: 166, 167. 15 Au 1917.
- Dearness, J.** New or noteworthy North American fungi. Mycologia **9**: 345-364. 24 N 1917.
Includes thirty-seven new species in various genera and several new combinations.
- Detjen, L. R.** Pollination of the rotundifolia grapes. Jour. Elisha Mitchell Sci. Soc. **33**: 120-127. N 1917.
- Dorsey, M. J.** The Duchess apple improved. Jour. Heredity **8**: 565-567. f. 9. D 1917.
- Douglass, [H.] B.** Mushroom poisoning. Torreya **17**: 171-175. 31 O 1917; 207-221. 24 Ja 1918.
- Drennan, G. T.** Volunteer plants. Am. Bot. **23**: 86-88. Au 1917.
- Dunham, E. N.** Unusual habitats. Bryologist **20**: 98, 99. N 1917.
- Dupler, A. W.** The gametophytes of *Taxus canadensis* Marsh. Bot. Gaz. **64**: 115-136. pl. 11-14. 15 Au 1917.
- Durfee, T.** Lichens of the Mt. Monadnock regions, N. H.—No. 9. Bryologist **20**: 99. N 1917.
- Elliott, J. A.** The conduction of potassium cyanide in plants. Phytopathology **7**: 443-448. f. 1, 2. 3 D 1917.
- Evans, A. W.** A new *Lejeunea* from Bermuda and the West Indies. Bull. Torrey Club **44**: 525-528. pl. 24. 20 N 1917.
Lejeunea minutiloba sp. nov.
- Evans, A. W.** Preliminary list of Arizona Hepaticae. Bryologist **20**: 60-62. 15 Au 1917.
- Faust, E. C.** Resin secretion in *Balsamorhiza sagittata*. Bot. Gaz. **64**: 441-479. pl. 28-31 + f. 1, 2. 18 D 1917.
- Fernald, M. L.** A new alpine willow from the White Mountains. Rhodora **19**: 221-223. 21 N 1917.
Salix Peasei sp. nov.
- Fernald, M. L.** The boreal and subalpine variety of *Spiraea latifolia*. Rhodora **19**: 254, 255. 5 D 1917.
- Fromme, F. D.** *Tylenchus tritici* on wheat in Virginia. Phytopathology **7**: 452, 453. f. 1. 3 D 1917.

- Frye, T. C.** Illustrated key to the western Ditrichaceae. *Bryologist* 20: 49-60. *pl.* 1-19. 15 Au 1917.
- Gaines, E. F.** Inheritance in wheat, barley and oat hybrids. *Washington Agr. Exp. Sta. Bull.* 135: 1-61. *f.* 1-9. Mr 1917.
- Garman, H.** A bean disease introduced in diseased seeds. *Kentucky Agr. Exp. Sta. Circ.* 16: 91-95. *f.* 1. Jl 1917.
Anthracnose.
- Gilbert, A. H., & Bennett, C. W.** *Sclerotinia trifoliorum*, the cause of stem rot of clovers and alfalfa. *Phytopathology* 7: 432-442. *f.* 1-5. 3 D 1917.
- Gourley, J. H.** Some observations on the growth of apple trees. *New Hampshire Agr. Exp. Sta. Bull.* 12: 1-38. *charts* 1-9. Jl 1917.
- Greenman, J. M.** Two exotic Compositae in North America. *Ann. Missouri Bot. Gard.* 4: 289-292. *pl.* 19. N 1917.
- Grier, N. M.** New forms of *Calamites*. *Am. Mid. Nat.* 5: 147-150. *pl.* 1-3. N 1917.
Includes *Calamites Fettermanni*, *C. multifoliotus*, and *C. cruciatus Harrisoni*, spp. nov.
- Grier, N. M.** Note on fruit of mountain magnolia. *Rhodora* 19: 256. 5 D 1917.
- Güssow, H. T.** The occurrence of *Colletotrichum cereale*, *Dothichiza populea* and *Leptosphaeria napi* in Canada. *Phytopathology* 7: 450. 3 D 1917.
- Halsted, B. D., & Owen, E. J.** Environment of seeds and crop production. *Plant World* 20: 294-297. S 1917.
- Hanson, H. C.** Leaf-structure as related to environment. *Am. Jour. Bot.* 4: 533-560. *f.* 1-20. 24 N 1917.
- Harger, E. B., and others.** Additions to the flora of Connecticut. *Rhodora* 19: 224-232. 21 N; 245-253. 5 D 1917.
- Harper, R. M.** Some North Carolina soil statistics and their significance. *Jour. Elisha Mitchell Sci. Soc.* 33: 106-119. N 1917.
- Harris, J. A.** On the distribution of abnormalities in the inflorescence of *Spiraea Vanhouttei*. *Am. Jour. Bot.* 4: 624-636. *pl.* 30, 31 + *f.* 1-4. 12 D 1917.
- Harris, J. A.** Sunspots, climatic factors and plant activities. *Am. Nat.* 51: 761-764. D 1917.
- Hendershot, L. B.** The white or American elm. *Nature Study Rev.* 13: 298-301. O 1917.
- Henry, J. K.** Alberni notes. *Ottawa Nat.* 31: 54-58. 13 N 1917.
- Hodgson, R. W.** An avocado monstrosity. *Jour. Heredity* 8: 557. *f.* 7. D 1917.

- Hodgson, R. W.** Some abnormal water relations in *Citrus* trees of the arid southwest and their possible significance. Univ. Calif. Publ. Agr. 3: 37-54. *pl.* 12. 29 S 1917.
- Hopkins, L. S.** A new species of fern (*Polystichum Jenningsi*). Ann. Carnegie Mus. 11: 362, 363. *pl.* 37. 5 N 1917.
- Jeffrey, E. C.** The anatomy of plants i-x + 1-478. *f.* 1-306. Chicago. O 1917.
- Jennings, O. E.** *Pterygophyllum acuminatum* at Ohio Pyle, Pennsylvania. Bryologist 20: 100. N 1917.
- Korstain, C. F.** The indicator significance of native vegetation in the determination of forest sites. Plant World 20: 267-287. S 1917.
- Latham, R.** Habitat of *Cephalozia Francisci* on Long Island, N. Y. Bryologist 20: 63, 64. 15 Au 1917.
- Levy, D. J.** Some experiments on the germination of moss spores on agar. Bryologist 20: 62, 63. 15 Au 1917.
- Lloyd, C. G.** Mycological notes 50: 701-716. *f.* 1049-1074 + *portrait*. O 1917.
- Léveillé, H.** Catalogue des plantes du Yun-Nan, avec renvoi aux diagnoses originales observations et descriptions d'espèces nouvelles. 1-299. *f.* 1-68. 1917.
Contains reference to, and figure of, an American plant, *Epilobium Arechavaletae* Lév.
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- Luckan, L.** Ecological morphology of *Abutilon Theophrasti*. Kansas Univ. Sci. Bull. 20: 219-228. *pl.* 1-3. Ja 1917.
- MacCaughey, V.** The guavas of the Hawaiian Islands. Bull. Torrey Club 44: 513-524. 20 N 1917.
- MacCaughey, V.** The phytogeography of Manoa Valley, Hawaiian Islands. Am. Jour. Bot. 4: 561-603. *f.* 1-14. 12 D 1917.
- MacCaughey, V.** A survey of the Hawaiian land flora. Bot. Gaz. 64: 89-114. *f.* 1-5. 15 Au 1917.
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Also published in Iowa Agr. Exp. Sta. Bull. 170: 1-16. Mr 1917.
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Cylindrocladium scoparium.

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- Murphy, L. S.** The red spruce: its growth and management. U. S. Dept. Agr. Bull. **544**: 1-100. pl. 1-7 + f. 1-3. 31 O 1917.
- Nanz, R. S.** Note on *Buxbaumia indusiata* Bridel. Bryologist **20**: 64. 15 Au 1917.
- Nieuwland, J. A.** Teratological notes. Am. Mid. Nat. **5**: 156. N 1917.
- Olive, E. W.** Autumn colors. Brooklyn Bot. Gard. Leaflets **5**: [1-3]. 17 O 1917.
- Olive, E. W.** A trip to Texas to investigate cotton rust. Brooklyn Bot. Gard. Rec. **6**: 154-158. O 1917.
- O'Neil, G. H.** Messages of flowers or their floral code and dictionary. 1-142. frontispiece. Brooklyn. 1917.
"Embracing mythological stories and some floral facts."
- Osterhout, G. E.** A new *Mertensia*. Torreyia **17**: 175, 176. 31 O 1917.
Mertensia media sp. nov.
- Osterhout, W. J. V.** The rôle of the nucleus in oxidation. Science II. **46**: 367-369. 12 O 1917.
- Overholts, L. O.** The structure of *Polyporus glomeratus* Peck. Torreyia **17**: 202-206. pl. 1. 30 N 1917.
- Overholts, L. R.** An undescribed timber decay of pitch pine. Mycologia **9**: 261-270. pl. 12, 13. 24 S 1917.
A rot caused by *Polyporus amorphus*.
- Parish, S. B.** An enumeration of the Pteridophytes and Spermatophytes of the San Bernardino Mountains, California. Plant World **20**: 163-178. f. 1-3. Je 1917; 208-223.. Jl 1917; 245-259. Au 1917.
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- Piper, C. V.** Notes on *Canavalia* with the descriptions of new species. Proc. Biol. Soc. Washington **30**: 175-178. 23 O 1917.
Canavalia campylocarpa and *C. luzonica*, spp. nov.
- Posey, G. B., Gravatt, G. F., & Colley, R. H.** Uredinia of *Cronartium ribicola* on *Ribes* stems. Science II. **46**: 314, 315. 28 S 1917.
- Pratt, D. J.** An anatomical study of *Cycloloma atriplicifolium*. Kansas Univ. Sci. Bull. **20**: 87-120. pl. 1-19. Ja 1917.
- Rands, R. D.** *Alternaria* on *Datura* and potato. Phytopathology **7**: 327-338. f. 1-4. 3 O 1917.
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- Rehder, A.** The genus *Fraxinus* in New Mexico and Arizona. *Proc. Am. Acad. Arts & Sci.* **53**: 199-212. O 1917.
Includes *Fraxinus Standleyi* and *F. Lowellii*, spp. nov.
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- Riddle, L. W.** *Pyrenothrix nigra* gen. et sp. nov. *Bot. Gaz.* **64**: 513-515. f. 1-4. 18 D 1917.
- Riddle, L. W.** The genus *Parmeliopsis* of Nylander. *Bryologist* **20**: 69-76. pl. 20 + f. 1, 2. 13 O 1917.
- Ridgway, C. S.** Method of photographing culture plates. *Phytopathology* **7**: 388-391. f. 1. 3 O 1917.
- Rietz, H. L., & Smith, L. H.** A statistical study of some indirect effects of certain selections in breeding Indian corn. *Jour. Agr. Research* **11**: 105-146. f. 1-24. 22 O 1917.
- Ritter, N.** Histology of *Astragalus mollissimus*. *Kansas Univ. Sci. Bull.* **20**: 197-208. pl. 1-4. Ja 1917.
- Rock, J. F.** Hawaiian trees—a criticism. *Bull. Torrey Club* **44**: 545, 546. 27 D 1917.
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- Rock, J. F.** Revision of the Hawaiian species of the genus *Cyrtandra*, section *Cylindrocalyces* Hillebr. *Am. Jour. Bot.* **4**: 604-623. f. 1-5. 12 D 1917.
Cyrtandra Waianuensis sp. nov. and several new varieties are described.
- Rogers, J. M., & Earle, F. S.** A simple and effective method of protecting citrus fruits against stem-end rot. *Phytopathology* **7**: 361-367. 3 O 1917.
- Rolfe, R. A.** *Ondontoglossum chiriquense*. *Curt. Bot. Mag. IV.* **13**: pl. 8725. S 1917.
A plant from Central America.
- Rolfe, R. A.** *Odontoglossum platycheilum*. *Curt. Bot. Mag. IV.* **13**: pl. 8718. S 1917.
A plant from Guatemala.
- Rolfe, R. A.** New orchids: Decade XLV. *Kew Bull. Misc. Inf.* **1917**: 80-84. Jl 1917.
Includes *Pleurothallis costaricensis*, *Epidendrum tricarinatum*, *Maxillaria Shephardii*, and *Dichaea ciliolata* from America.
- Rorer, J. B.** Algal disease of cacao. *Proc. Agr. Soc. Trinidad & Tobago* **17**: 345-348. S 1917.

- Rose, J. N.** *Pachyphytum bracteosum*. Addisonia 2: 53. pl. 67. 29 S 1917.
- Russel, P. G.** Uses of cacti. Am. Bot. 23: 90-97. Au 1917.
- Sampson, A. W.** Important range plants; their life history and forage value. U. S. Dept. Agr. Bull. 545: 1-63. pl. 1-56. 8 O 1917.
- Sawyer, M. L.** Pollen tubes and spermatogenesis in *Iris*. Bot. Gaz. 64: 159-164. f. 1-18. 15 Au 1917.
- Sawyer, W. H., Jr.** The development of *Cortinarius pholideus*. Am. Jour. Bot. 4: 520-532. pl. 28, 29. 24 N 1917.
- Seaver, F. J.** *Sclerotinia* and *Botrytes*. Torreya 17: 163, 164. 2 O 1917.
Also published in Science II. 46: 163. 17 Au 1917.
- Shamel, A. D.** Origin of the striped cane. Jour. Heredity 8: 471, 472. f. 13. O 1917.
- Shantz, H. L., & Piemeisel, R. L.** Fungus fairy rings of eastern Colorado and their effect on vegetation. Jour. Agr. Research 11: 191-246. pl. 10-30 + f. 1-15. 29 O 1917.
- Shear, C. L.** Endrot of cranberries. Jour. Agr. Research 11: 35-42. pl. A + f. 1-3. 8 O 1917.
Fusicoccum putrefaciens sp. nov. is described.
- Shear, C. L., & Stevens, N. E.** The botanical work of Ezra Michener. Bull. Torrey Club 44: 547-558. 27 D 1917.
- Shear, C. L., & Stevens, N. E.** Studies of the Schweinitz collections of fungi-II. Distribution and previous studies of authentic specimens. Mycologia 9: 333-344. 24 N 1917.
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- Sinnott, E. W.** A botanical criterion of the antiquity of the Angiosperms. Jour. Geol. 24: 777-782. D 1916.
- Sinnott, E. W.** The "age and area" hypothesis and the problem of endemism. Am. Bot. 31: 209-216. Ap 1917.
- Skan, S. A.** *Pyrola bracteata*. Curt. Bot. Mag. IV. 13: pl. 8710 B. Je 1917.
A North American plant.

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A plant from North America.
- Small, J. K.** *Aesculus parviflora*. Addisonia 2: 45, 46. pl. 63. 29 S 1917.
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Includes description of *Cephalocereus Deeringii* sp. nov.
- Smith, C. P.** Studies in the genus *Lupinus*—I. A new species of the subgenus *Platycarpus*. Bull. Torrey Club 44: 405, 406. 10 Au 1917.
Lupinus subvexus sp. nov.
- Soth, B. H.** Plant life on the peaks. Am. Bot. 23: 77-85. Au 1917.
[Illust.]
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- Stevenson, J. A.** An epiphytotic of cane disease in Porto Rico. Phytopathology 7: 418-425. f. 1, 2. 3 D 1917.
- Stewart, V. B.** The perennation of *Cronartium ribicola* Fisch. on currant. Phytopathology 7: 448, 449. 3 D 1917.
- Stewart, V. B.** A twig and leaf disease of *Kerria japonica*. Phytopathology 7: 399-407. f. 1-6. 3 D 1917.
Coccomyces Kerriae sp. nov.
- Stout, A. B.** Notes regarding variability of the rose mallows. Torreyia 17: 142-148. 14 Au 1917.
- Stout, A. B.** Observations on tulips. Jour. Hort. Soc. New York 2: 201-206. pl. 37, 38. Au 1917.
- Sturgis, W. C.** Notes on new or rare Myxomycetes. Mycologia 9: 323-332. pl. 14, 15. 24 N 1917.
Includes *Physarum melanospermum*, *P. lilacinum*, *Didymium fulvum* and *Enteridium minutum*, spp. nov.
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- Swingle, W. T.** Le fruit mûr et les jeunes semis de *Aeglopsis Chevalieri*. Bull. Soc. Bot. France **60**: 406-409. f. A. 1913.
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- Swingle, W. T.** The name of the wood-apple, *Feronia Limonia*. Jour. Washington Acad. Sci. **4**: 325-329. 19 Je 1914.
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- Swingle, W. T.** *Pamburus*, a new genus related to *Citrus*, from India. Jour. Washington Acad. Sci. **6**: 335-338. 4 Je 1916.
- Swingle, W. T.** *Pleiospermium*, a new genus related to *Citrus*, from India, Ceylon and Java. Jour. Washington Acad. Sci. **6**: 426-431. 19 Jl 1916.
- Swingle, W. T.** *Severinia buxifolia*, a citrus relative, native to southern China. Jour. Washington Acad. Sci. **6**: 651-657. f. 1, 2. 19 N 1916.
- Tanaka, T.** New Japanese Fungi. Notes and translations—II. Mycological **9**: 249-253. Jl 1917;—III. Mycologia **9**: 365-368. N 1917.
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- Taylor, M. W.** Preliminary report on the vertical distribution of *Fusarium* in soil. Phytopathology **7**: 374-378. 3 O 1917.
- [**Taylor, N.**] The Semi-centennial of the Club. Torreya **17**: 183-186. 30 N 1917.
- Taylor, N.** Informal and wild gardening. Jour. Internat. Gard. Club **1**: 91-104. Au 1917. [Illust.]
- Taylor, N.** Plants of the Catskill aqueduct. Brooklyn Bot. Gard. Leaflets **5**: [3-8]. 10 O 1917.
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